

County of

FRESNO

**Harold McKinney
Sheriff**

Q1-76

August 4, 1982

LOCAL & STATE

Director
Federal Bureau of Investigation
ATTN: FBI Laboratory
Washington, DC 20535

Re: Our Case #82-6246
Offense: Homicide
Victim: Imperatrice, Michael
Suspect: [REDACTED]

b6
b7C

Dear Sir:

This is a letter of transmittal to accompany evidence sent today under separate cover via registered mail to the F.B.I. Laboratory for examination. The evidence consists of three bullet fragments collected from the body of the above named victim and a bag and two boxes of 32 S&W caliber cartridges. We are requesting that a comparison of the elemental composition of these items be made. No firearms have been recovered in this case and it is unlikely that any will be recovered.

The known significant facts of the case are as follows. The victim was found in a canal with three gunshot wounds to the head. At autopsy bullet fragments from the three gunshot wounds were recovered. The suspect lives with his parents. In his room seven 32 S&W cartridges were found in a bowl with other "pocket" items such as coins. In his parents bedroom two boxes of 32 S&W ammunition were found. The first box is Remington brand and contains: thirty (30) Remington, 32 S&W caliber, cartridges and one (1) 22 rimfire cartridge. The second box is Winchester-Western brand and contains thirty-five (35) rounds of Winchester-Western, 32 S&W caliber ammunition.

Although victim and suspect can be placed together prior to the victim's disappearance there is little evidence for prosecution. If a relationship between the fatal bullets and ammunition from the suspect's residence can be demonstrated prosecution will be feasible.

COPY AND SPECIMENS
RETAINED IN LAB FOR
LAB ACTION AND REPORT

DE-114

Very Truly Yours, 17 AUG 9 1982

b6
b7C

Bullet Lead-1-95-25099

ph# 209-488-3875

2-24-82)

FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

DATE:

August 23, 1982

Re:

TO:

Sheriff of Fresno County
Post Office Box 1788
Fresno, California 93717

Attention:

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b7C

[REDACTED] - SUSPECT;
MICHAEL IMPERATRICE - VICTIM;
HOMICIDE

b6
b7C

Invoice of Contents

Q1 - Q76

ALSO SUBMITTED item

FX#647900105
8/25/82
1pc - 4155 2-24-1982
EC
D-1
Hav

☒ Return to [REDACTED]

b6
b7C

Room 3342 TL 941

FBI File # 95-250999-241

Case # 20603084 S RD

Ext. _____

☐ Mail Room: 1B327, TL 152
(registered mail)

☐ PSM - Supply Unit, 1B353
(not registered)

Shipping Method _____
Shipping Method _____

RAA:veg (5)

8/23/82

Bullet Lead-2-95-25099

FBI/DOJ

REPORT
of the



FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

1 -



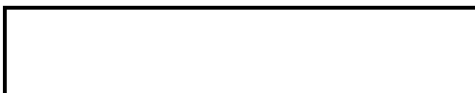
b6
b7C

To: Sheriff of Fresno County
Post Office Box 1708
Fresno, California 93717

b6
b7C

August 23, 1982

Attention:



FBI FILE NO.

LAB. NO. 20209084 S PB

Re:

b6
b7C

SUSPECT:
RICHARD J. INPATRICE - VICTIM;
HOMICIDE

YOUR NO. 02-6246

LOCAL & STATE

Examination requested by:

Addressee

Reference:

Letter dated August 4, 1982

Examination requested:

Elemental Analysis

Specimens:

Q1-Q4 Bullet fragments from body of INPATRICE

Q5-Q11 Seven .32 Smith and Wesson caliber Winchester-Western cartridges from bedroom

b6
b7C

Q12-Q46 Thirty-five .32 Smith and Wesson caliber Winchester-Western cartridges

b6
b7C

Q47-Q76 Thirty .32 Smith and Wesson caliber Remington cartridges

ALSO SUBMITTED:

.22 caliber cartridge

Page 1

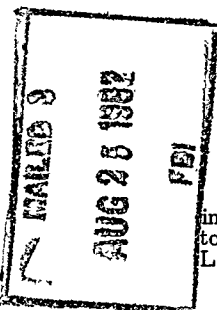
RAA:vrg*(4)

This examination has been made with the understanding that the evidence is connected with an official investigation of a criminal matter and that the Laboratory report will be used for official purposes only, related to the investigation or a subsequent criminal prosecution. Authorization cannot be granted for the use of the Laboratory report in connection with a civil proceeding.

Bullet Lead-3-95-25099

10 AUG 23 1982

FBI/DOJ



57 SEP 1 1982 MAIL ROOM

95-25099-2 (over)

Result of examination:

Specimens Q1 through Q4 and the bullet components of the Q5 through Q14, Q47, Q48 and Q49 cartridges were analyzed by neutron activation analysis for their elemental compositions.

Bullet components matching the compositions of the Q1 through Q4 bullet fragments were found among the Q5 through Q14 cartridges.

Bullets matching in composition are commonly found among bullets from the same box of cartridges. However, bullets matching in composition are sometimes found between different boxes of cartridges and are likely to occur among different boxes of cartridges of the same type and manufacture, packaged on or about the same date.

The compositions of the bullet components of the Q47 through Q49 cartridges are substantially different from the compositions of specimens Q1 through Q4. This substantial difference in compositions is not characteristic of bullets originating from the same box of cartridges.

The submitted items are being returned to your office under separate cover by air freight.

Page 2

20809084 S RB

Bullet Lead-4-95-25099

RECORDED
8/12/82
vrg*

FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

8/9/82

b6
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To: Sheriff of Fresno County
Post Office Box 1788
Fresno, California 93717

b6
b7C

Attention:

FBI FILE NO.

LAB. NO. 20809084 S RB

Re:

b6
b7C

[redacted] - SUSPECT;
MICHAEL IMPERATRICE - VICTIM;
HOMICIDE

YOUR NO.

82-6246

Examination by:

Examination requested by:

Addressee

Reference:

Letter dated August 4, 1982

Examination requested:

Elemental Analysis

Specimens received:

August 9, 1982

Specimens:

Q1-Q4

Bullet fragments from body of IMPERATRICE

Q5-Q11

Seven .32 Smith and Wesson caliber Winchester-
Western cartridges from [redacted] bedroom

b6
b7C

Q12-Q46

Thirty-five .32 Smith and Wesson caliber Winchester-
Western cartridges from [redacted] bedroom

b6
b7C

Q47-Q76

IR
Thirty .32 Smith and Wesson caliber Remington
cartridges from [redacted] bedroom

b6
b7C

ALSO SUBMITTED:

.22 caliber cartridge

7-1A
8-19-82
RAA: vrg

Bullet Lead-5-95-25099

25 APR 1983 9:05:04 AM

TOTAL ENTRIES 1180

SEARCH OF FILE FOR: 20809084 RB Q2C

CU RANGE 0.0351 TO 0.0365
SB RANGE 0.5638 TO 0.5868
AS RANGE 0.0006 TO 0.0012

CASE #	SAMPLE	C M T			% CU	% SB	% AS	CU	RSD	
		A A Y	L N P	SB					AS	
20809084 RB	Q1C		F	0.0358	0.5641	0.0009	0.4	0.1	12.1	
20809084 RB	Q2C	U W R		0.0358	0.5753	0.0009	1.7	0.8	103.7	
20809084 RB	Q8C	U W R		0.0354	0.5715	0.0007	1.4	0.3	25.4	
20809084 RB	Q10C	U W R		0.0354	0.5647	0.0010	0.9	0.5	3.6	
20809084 RB	Q12C	U W R		0.0360	0.5642	0.0010	2.2	0.6	14.7	
20809084 RB	Q13C	U W R		0.0355	0.5663	0.0009	1.7	0.2	18.2	

COPPER WITHIN RANGE 30 PERCENT 2.54237
ANTIMONY WITHIN RANGE 40 PERCENT 3.38983
ARSENIC WITHIN RANGE 51 PERCENT 4.32203

TOTAL WITHIN RANGE FOR THREE ELEMENTS 6 PERCENT 0.50847

OLD LEAD FILE

TOTAL ENTRIES 3271

COPPER WITHIN RANGE 31 PERCENT 0.94772
ANTIMONY WITHIN RANGE 38 PERCENT 1.16172
ARSENIC WITHIN RANGE 116 PERCENT 3.54632

TOTAL WITHIN RANGE FOR THREE ELEMENTS 0 PERCENT 0.00000

Bullet Lead-6-95-25099

25 APR 1983 9:01:15 AM

TOTAL ENTRIES 1180

SEARCH OF FILE FOR: 20809084 RB Q1C

CU RANGE 0.0351 TO 0.0365
SB RANGE 0.5528 TO 0.5754
AS RANGE 0.0006 TO 0.0012

CASE #	SAMPLE	C M T			% CU	% SB	% AS	CU	RSD	
		A A Y	L N P	SB					AS	
20809084 RB	Q1C		F	0.0358	0.5641	0.0009	0.4	0.1	12.1	
20809084 RB	Q2C	U W R		0.0358	0.5753	0.0009	1.7	0.81	103.7	
20809084 RB	Q3C	U W R		0.0357	0.5637	0.0008	1.6	0.1	12.1	
20809084 RB	Q4C	U W R		0.0358	0.5599	0.0007	1.0	0.5	9.8	
20809084 RB	Q7C	U W R		0.0353	0.5609	0.0008	0.3	0.2	5.7	
20809084 RB	Q8C	U W R		0.0354	0.5715	0.0007	1.4	0.3	25.4	
20809084 RB	Q9C	U W R		0.0356	0.5612	0.0007	1.2	1.1	16.2	
20809084 RB	Q10C	U W R		0.0354	0.5647	0.0010	0.9	0.5	3.6	
20809084 RB	Q11C	U W R		0.0356	0.5611	0.0008	2.2	0.2	17.4	
20809084 RB	Q12C	U W R		0.0360	0.5642	0.0010	2.2	0.6	14.7	
20809084 RB	Q13C	U W R		0.0355	0.5663	0.0009	1.7	0.2	18.2	
20809084 RB	Q14C	U W R		0.0355	0.5635	0.0009	0.6	1.51	103.4	

COPPER WITHIN RANGE 29 PERCENT 2.45763
ANTIMONY WITHIN RANGE 42 PERCENT 3.55932
ARSENIC WITHIN RANGE 51 PERCENT 4.32203

TOTAL WITHIN RANGE FOR THREE ELEMENTS 12 PERCENT 1.01693

OLD LEAD FILE

TOTAL ENTRIES 3271

COPPER WITHIN RANGE 31 PERCENT 0.94772
ANTIMONY WITHIN RANGE 41 PERCENT 1.25344
ARSENIC WITHIN RANGE 115 PERCENT 3.51574

TOTAL WITHIN RANGE FOR THREE ELEMENTS 0 PERCENT 0.00000

Bullet Lead-7-95-25099

SAMPLE	SAM.WT.	%-COPPER	%-ANTIMO	%-ARSENIC
Q1	10000.000	0.00005	0.00000	0.00001
Q1A	12841.000	0.03598	0.56468	0.00086
Q1B	12386.000	0.03569	0.56334	0.00104
Q1C	12358.000	0.03579	0.56427	0.00084
0.000146 SD 0.408012 %RSD 0.000688 SD 0.122013 %RSD 0.000110 SD 12.072359 %RSD				
Q2A	12537.000	0.03551	0.57630	0.00000
Q2B	13206.000	0.03538	0.57000	0.00109
Q2C	12784.000	0.03632	0.57960	0.00074
0.000626 SD 1.747387 %RSD 0.004876 SD 0.847623 %RSD 0.000947 SD 103.677109 %RSD				
Q3A	12382.000	0.03544	0.56317	0.00070
Q3B	10258.000	0.03539	0.56423	0.00088
Q3C	11992.000	0.03639	0.56363	0.00085
0.000568 SD 1.588943 %RSD 0.000529 SD 0.093836 %RSD 0.000098 SD 12.091673 %RSD				
Q4A	12377.000	0.03540	0.56112	0.00060
Q4B	14110.000	0.03605	0.56508	0.00069
Q4C	12204.000	0.03600	0.56191	0.00072
0.000365 SD 1.018691 %RSD 0.002876 SD 0.513623 %RSD 0.000066 SD 9.784244 %RSD				
Q5A	12420.000	0.02842	0.52741	0.00113
Q5B	12053.000	0.02914	0.53642	0.00088
Q5C	12354.000	0.02760	0.52700	0.00082
0.000769 SD 2.710145 %RSD 0.005323 SD 1.003828 %RSD 0.000164 SD 17.401007 %RSD				
Q6A	12354.000	0.03540	0.56546	0.00080
Q6B	12607.000	0.03485	0.56460	0.00074
Q6C	11813.000	0.03504	0.55469	0.00065
0.000278 SD 0.791578 %RSD 0.005984 SD 1.063513 %RSD 0.000075 SD 10.262319 %RSD				
Q7A	12794.000	0.03540	0.56036	0.00080
Q7B	12253.000	0.03520	0.56026	0.00072
Q7C	12724.000	0.03521	0.56219	0.00079

Bullet Lead-8-95-25099

0.000113 SD
0.321542 ZRSD

0.001086 SD
0.193609 ZRSD

0.000044 SD
5.736905 ZRSD

Q8A 12933.000
Q8B 13044.000
Q8C 12960.000

2

0.03585
0.03545
0.03488

0.57335
0.57105
0.57012

0.00055
0.00088
0.00064

0.000489 SD
1.381120 ZRSD

0.001663 SD
0.290972 ZRSD

0.000175 SD
25.383356 ZRSD

Q9A 12601.000
Q9B 13993.000
Q9C 12337.000

1

0.03601
0.03532
0.03514

0.56326
0.55421
0.56614

0.00078
0.00061
0.00084

0.000436 SD
1.226843 ZRSD

0.006221 SD
1.108590 ZRSD

0.000120 SD
16.188433 ZRSD

Q10A 11844.000
Q10B 12770.000
Q10C 12035.000

1

0.03510
0.03528
0.03573

0.56170
0.56534
0.56695

0.00104
0.00099
0.00107

0.000323 SD
0.912009 ZRSD

0.002686 SD
0.475658 ZRSD

0.000037 SD
3.567220 ZRSD

Q11A 12425.000
Q11B 12404.000
Q11C 10081.000

1

0.03583
0.03630
0.03475

0.56005
0.56235
0.56081

0.00068
0.00079
0.00096

0.000794 SD
2.228801 ZRSD

0.001168 SD
0.208153 ZRSD

0.000141 SD
17.364620 ZRSD

Q12A 12977.000
Q12B 12019.000
Q12C 12261.000

1

0.03586
0.03534
0.03689

0.56639
0.56049
0.56579

0.00084
0.00092
0.00112

0.000790 SD
2.192858 ZRSD

0.003244 SD
0.574925 ZRSD

0.000141 SD
14.698787 ZRSD

Q13A 12319.000
Q13B 12801.000
Q13C 12586.000

1

0.03589
0.03574
0.03479

0.56768
0.56562
0.56568

0.00090
0.00080
0.00113

0.000595 SD
1.678118 ZRSD

0.001170 SD
0.206621 ZRSD

0.000171 SD
18.182281 ZRSD

Bullet Lead-9-95-25099

Q14A 12416.000
Q14B 12129.000
Q14C 12190.000

0.03558
0.03539
0.03520

0.55874
0.57290
0.55871

0.00000
0.00102
0.00070

0.000222 SD

0.008185 SD

0.000888 SD

0.626645 ZRSD 1.432591 ZRSD 103.384193 ZRSD

Q47A 12261.000
Q47B 14176.000
Q47C 12542.000

0.03880 0.85261 0.00164
0.03965 0.85417 0.00161
0.03903 0.84871 0.00172

0.000439 SD 0.002814 SD 0.000057 SD
1.119976 ZRSD 0.330308 ZRSD 3.412508 ZRSD

Q48A 11973.000
Q48B 12639.000
Q48C 12477.000

0.03999 0.84242 0.00222
0.03945 0.83956 0.00279
0.03810 0.84171 0.00198

0.000972 SD 0.001493 SD 0.000416 SD
2.481323 ZRSD 0.177533 ZRSD 17.831123 ZRSD

Q49A 12298.000
Q49B 12093.000
Q49C 12696.000

0.03971 0.85306 0.00162
0.03937 0.85458 0.00169
0.03831 0.85446 0.00117

0.000618 SD 0.000844 SD 0.000284 SD
1.573371 ZRSD 0.098806 ZRSD 19.025328 ZRSD

S604A 14932.000
S604B 14373.000
S604C 12640.000

0.00633 1.77998 0.09948
0.00660 1.78724 0.09979
0.00668 1.80679 0.10088

0.000183 SD 0.013864 SD 0.000736 SD
2.797747 ZRSD 0.773930 ZRSD 0.736020 ZRSD

S626A 12735.000
S626B 13382.000
S626C 11990.000

0.07691 0.72766 0.00316
0.07861 0.72299 0.00331
0.07852 0.70876 0.00327

0.000954 SD 0.009844 SD 0.000079 SD
1.223213 ZRSD 1.367612 ZRSD 2.435164 ZRSD

BLANK 10000.000
BG2 10000.000

0.00047 0.00012 0.00010
0.00019 0.00015 0.00001

(TI)TITLL:
 20807084 RB
 (LN)LIBRARY: D .RESULT
 (SA)SAMPLE TIME: 1/ AUG 82 09:41:00
 (SE)STD ENERGY TOLERANCE: 2.00
 (UE)UNK ENERGY TOLERANCE: 2.00
 (TF)THERMAL FLUX: 0.0000E-01
 (EF)EPITHERMAL FLUX: 0.0000E-01
 (FF)FAST FLUX: 0.0000E-01
 (QU)UNITS: UG

	ELEMENT	ENERGY	HALF-LIFE	SLC
1	%-COPPER	511.00	1.2300E 01 H	4.6080E 04
2	%-ANTIMONY	564.09	2.7200E 00 D	2.3501E 05
3	%-ARSENIC	559.30	2.6300E 01 H	9.4680E 04

STANDARD SAMPLES

	NAME	MASS	FILE	POWER	ACT TIME
1	S604A	14932.00 F2	.A53	100.0	100000.0
2	S604B	14373.00 F2	.A54	100.0	100000.0
3	S604C	12640.00 F2	.A55	100.0	100000.0
4	S626A	12735.00 F2	.A56	100.0	100000.0
5	S626B	13382.00 F2	.A57	100.0	100000.0
6	S626C	11990.00 F2	.A58	100.0	100000.0

STD: 1 S604A FILE= F2 .A53

	ELEMENT	ENERGY	CONC	ERROR
1	%-COPPER	511.00	0.0000E-01	0.0000E-01
2	%-ANTIMONY	564.09	0.0000E-01	0.0000E-01
3	%-ARSENIC	559.30	1.0000E-01	0.0000E-01

STD: 2 S604B FILE= F2 .A54

	ELEMENT	ENERGY	CONC	ERROR
1	%-COPPER	511.00	0.0000E-01	0.0000E-01
2	%-ANTIMONY	564.09	0.0000E-01	0.0000E-01
3	%-ARSENIC	559.30	1.0000E-01	0.0000E-01

STD: 3 S604C FILE= F2 .A55

	ELEMENT	ENERGY	CONC	ERROR
1	%-COPPER	511.00	0.0000E-01	0.0000E-01
2	%-ANTIMONY	564.09	0.0000E-01	0.0000E-01
3	%-ARSENIC	559.30	1.0000E-01	0.0000E-01

STD: 4 S626A FILE= F2 .A56

	ELEMENT	ENERGY	CONC	ERROR
1	%-COPPER	511.00	7.8000E-02	0.0000E-01
2	%-ANTIMONY	564.09	7.2000E-01	0.0000E-01
3	%-ARSENIC	559.30	0.0000E-01	0.0000E-01

Bullet Lead-11-95-25099

STD: 5 S626B

FILE= F2 .A57

	ELEMENT	ENERGY	CONC	ERROR
1	%-COPPER	511.00	8.0000E-02	0.0000E-01
2	%-ANTIMONY	564.09	2.0000E-01	0.0000E-01
3	%-ARSENIC	559.30	0.0000E-01	0.0000E-01

STD: 6 S626C

FILE= F2 .A58

	ELEMENT	ENERGY	CONC	ERROR
1	%-COPPER	511.00	7.8000E-02	0.0000E-01
2	%-ANTIMONY	564.09	7.2000E-01	0.0000E-01
3	%-ARSENIC	559.30	0.0000E-01	0.0000E-01

Bullet Lead-12-95-25099

UNKNOWN SAMPLES

	NAME	MASS	FILE	POWER	ACT TIME
1	Q61	10000.00 F2	.A01	100.0	100000.0
2	Q1A	12841.00 F2	.A02	100.0	100000.0
3	Q1B	12386.00 F2	.A03	100.0	100000.0
4	Q1C	12350.00 F2	.A04	100.0	100000.0
5	Q2A	12537.00 F2	.A05	100.0	100000.0
6	Q2B	13206.00 F2	.A06	100.0	100000.0
7	Q2C	12784.00 F2	.A07	100.0	100000.0
8	Q3A	12382.00 F2	.A08	100.0	100000.0
9	Q3B	10258.00 F2	.A09	100.0	100000.0
10	Q3C	11992.00 F2	.A10	100.0	100000.0
11	Q4A	12377.00 F2	.A11	100.0	100000.0
12	Q4B	14110.00 F2	.A12	100.0	100000.0
13	Q4C	12204.00 F2	.A13	100.0	100000.0
14	Q5A	12420.00 F2	.A14	100.0	100000.0
15	Q5B	12053.00 F2	.A15	100.0	100000.0
16	Q5C	12554.00 F2	.A16	100.0	100000.0
17	Q6A	12354.00 F2	.A17	100.0	100000.0
18	Q6B	12607.00 F2	.A18	100.0	100000.0
19	Q6C	11813.00 F2	.A19	100.0	100000.0
20	Q7A	12794.00 F2	.A20	100.0	100000.0
21	Q7B	12253.00 F2	.A21	100.0	100000.0
22	Q7C	12724.00 F2	.A22	100.0	100000.0
23	Q8A	12953.00 F2	.A23	100.0	100000.0
24	Q8B	13044.00 F2	.A24	100.0	100000.0
25	Q8C	12960.00 F2	.A25	100.0	100000.0
26	Q9A	12601.00 F2	.A26	100.0	100000.0
27	Q9B	13993.00 F2	.A27	100.0	100000.0
28	Q9C	12337.00 F2	.A28	100.0	100000.0
29	Q10A	11844.00 F2	.A29	100.0	100000.0
30	Q10B	12770.00 F2	.A30	100.0	100000.0
31	Q10C	12035.00 F2	.A31	100.0	100000.0
32	Q11A	12423.00 F2	.A32	100.0	100000.0
33	Q11B	12404.00 F2	.A33	100.0	100000.0
34	Q11C	10081.00 F2	.A34	100.0	100000.0
35	Q12A	12977.00 F2	.A35	100.0	100000.0
36	Q12B	12019.00 F2	.A36	100.0	100000.0
37	Q12C	12261.00 F2	.A37	100.0	100000.0
38	Q13A	12319.00 F2	.A38	100.0	100000.0
39	Q13B	12601.00 F2	.A39	100.0	100000.0
40	Q13C	12586.00 F2	.A40	100.0	100000.0
41	Q14A	12416.00 F2	.A41	100.0	100000.0
42	Q14B	12129.00 F2	.A42	100.0	100000.0
43	Q14C	12190.00 F2	.A43	100.0	100000.0
44	Q47A	12261.00 F2	.A44	100.0	100000.0
45	Q47B	14176.00 F2	.A45	100.0	100000.0
46	Q47C	12542.00 F2	.A46	100.0	100000.0

47	Q48A	11973.00	F2	A47	100.0	100000.0
48	Q48B	12659.00	F2	A48	100.0	100000.0
49	Q48C	12477.00	F2	A49	100.0	100000.0
50	Q49A	12298.00	F2	A50	100.0	100000.0
51	Q49B	12093.00	F2	A51	100.0	100000.0
52	Q49C	12696.00	F2	A52	100.0	100000.0
53	S604A	14932.00	F2	A53	100.0	100000.0
54	S604B	14373.00	F2	A54	100.0	100000.0
55	S604C	12640.00	F2	A55	100.0	100000.0
56	S626A	12735.00	F2	A56	100.0	100000.0
57	S626B	13382.00	F2	A57	100.0	100000.0
58	S626C	11970.00	F2	A58	100.0	100000.0
59	BLANK	10000.00	F2	A59	100.0	100000.0
60	BQ2	10000.00	F2	A60	100.0	100000.0

Bullet Lead-13-95-25099

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

17-AUG-82 03:01:45

55074

20805087 RB

SAMPLE WEIGHT: (UG) 14932.00

ACTIVATION: 17-AUG-82 09:41:00 NBS 10 MIN RT4

ACQUIRE DATE: 17-AUG-82 22:58:44 GEM 13

PRESET LIVE TIME: 600. SEC CALIB DATE: 17-AUG-82 09:22:11

ELAPSED REAL TIME: 639. SEC KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 600. SEC OFFSET: -0.0226080 KEV

STANDARD REPORT:

ELEMENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ANTIMONY	564.1	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ARSENIC	559.3	13821.	1.0000E-01	0.0000E-01	2.1950E-02	1.9832E-04

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
18-AUG-82 09:02:28

3504B

20805034 RB

SAMPLE WEIGHT: (UG) 143/3.00

ACTIVATION: 17-AUG-82 09:41:00 NBS 10 MIN K14

ACQUIRE DATE: 17-AUG-82 23:09:34 GEN 13

PRESET LIVE TIME: 600. SEC CALIB DATE: 17-AUG-82 09:22:11

ELAPSED REAL TIME: 636. SEC KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 600. SEC OFFSET: -0.0226080 KEV

STANDARD REPORT:

ELEMENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ANTIMONY	564.1	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ARSENIC	559.3	13282.	1.0000E-01	0.0000E-01	2.2018E-02	2.0489E-04

Bullet Lead-15-95-25099

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

18-AUG-82 03:03:11

E5041C

20605014 NE

SAMPLE WEIGHT: (UG) 12640.00

ACTIVATION: 17-AUG-82 09:41:00 NBS 10 MIN RT4

ACQUIRE DATE: 17-AUG-82 23:20:23 GEM 13

PRESET LIVE TIME: 600. SEC CALIB DATE: 17-AUG-82 09:22:11

ELAPSED REAL TIME: 633. SEC KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 600. SEC OFFSET: -0.0226080 KEV

STANDARD REPORT:

ELEMENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ANTIMONY	564.1	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ARSENIC	559.3	11752.	1.0000E-01	0.0000E-01	2.2259E-02	2.1702E-04

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
18-AUG-82 03:03:55

3625A

2080508-7 RB

SAMPLE WEIGHT: (UG) 12735.00
ACTIVATION: 17-AUG-82 09:41:00 NBS 10 MIN RT4
ACQUIRE DATE: 17-AUG-82 23:31:09 GEM 13
PRESET LIVE TIME: 600. SEC CALIB DATE: 17-AUG-82 09:22:11
ELAPSED REAL TIME: 614. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 600. SEC OFFSET: -0.0226080 KLV

STANDARD REPORT:

ELEMENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	12024.	7.8000E-02	0.0000E-01	4.2868E-02	4.0360E-04
%-ANTIMONY	564.1	57896.	7.2000E-01	0.0000E-01	1.2200E-02	5.0891E-05
%-ARSENIC	559.3	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01

Bullet Lead-17-95-25099

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

18-AUG-82 03:04:38

5525B

20905097 RES

SAMPLE WEIGHT: (UG) 13382.00

ACTIVATION: 17-AUG-82 09:41:00 NBS 10 MIN RT4

ACQUIRE DATE: 17-AUG-82 23:41:34 GEM 13

PRESET LIVE TIME: 600. SEC CALIB DATE: 17-AUG-82 09:22:11

ELAPSED REAL TIME: 614. SEC KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 600. SEC OFF-SET: -0.0226080 KEV

STANDARD REPORT:

ELEMENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	12793.	7.8000E-02	0.0000E-01	4.3814E-02	3.7986E-04
%-ANTIMONY	564.1	60335.	7.2000E-01	0.0000E-01	1.2121E-02	4.9520E-05
%-ARSENIC	559.3	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
18-AUG-82 03:05:21

55250

20805034 123

SAMPLE WEIGHT: (UG) 11990.00
ACTIVATION: 17-AUG-82 09:41:00 NBS 10 MIN K14
ACQUIRE DATE: 17-AUG-82 23:52:03 GEN 13
PRESET LIVE TIME: 600. SEC CALIB DATE: 17-AUG-82 09:22:11
ELAPSED REAL TIME: 613. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 600. SEC OFFSET: -0.0226080 KEV

STANDARD REPORT:

ELEMENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	11341.	7.8000E-02	0.0000E-01	4.3762E-02	4.2336E-04
%-ANTIMONY	564.1	52898.	7.2000E-01	0.0000E-01	1.1883E-02	5.1862E-05
%-ARSENIC	559.3	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01

Bullet Lead-19-95-25099

SUMMARY OF STANDARD CONSTANTS:

1. ELEMENT Z-COPPER AT 511.00 KEV

STANDARD NAME	CONCENTR.	CONSTANT	ERROR (1 SIGMA)
S626A	7.0000E-02	4.2868E-02	4.0360E-04
S626B	7.8000E-02	4.3814E-02	3.9986E-04
S626C	7.8000E-02	4.3762E-02	4.2336E-04
<hr/>			
MEAN CONSTANT,	3 STDS:	4.3475E-02	2.3588E-04

2. ELEMENT Z-ANTIMONY AT 564.09 KEV

STANDARD NAME	CONCENTR.	CONSTANT	ERROR (1 SIGMA)
S626A	7.2000E-01	1.2200E-02	5.0891E-03
S626B	7.2000E-01	1.2121E-02	4.9520E-03
S626C	7.2000E-01	1.1883E-02	5.1862E-03
<hr/>			
MEAN CONSTANT,	3 STDS:	1.2071E-02	2.9289E-03

3. ELEMENT Z-ARSENIC AT 559.30 KEV

STANDARD NAME	CONCENTR.	CONSTANT	ERROR (1 SIGMA)
S604A	1.0000E-01	2.1950E-02	1.9852E-04
S604B	1.0000E-01	2.2018E-02	2.0489E-04
S604C	1.0000E-01	2.2259E-02	2.1902E-04
<hr/>			
MEAN CONSTANT,	3 STDS:	2.2065E-02	1.1949E-04

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

18-AUG-82 09:06:17

EUSL

208050E-7 RES

SAMPLE WEIGHT: (UG) 10000.00
 ACTIVATION: 17-AUG-82 09:41:00 NBS 10 MIN RT4
 ACQUIRE DATE: 17-AUG-82 13:57:32 GEM 13
 PRESET LIVE TIME: 600. SEC CALIB DATE: 17-AUG-82 09:22:11
 ELAPSED REAL TIME: 399. SEC KLV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 600. SEC OFFSET: -0.0226000 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	7.	10.	4.8090E-05	2.3826E-05	49.5
%-ANTIMONY	364.1	11.	0.	0.0000E-01	NOT DETECTABLE	
%-ARSENIC	559.3	9.	1.	8.0875E-06	3.6888E-05	456.1

	CU	SE	AS
CNTS/UG/MIN AT RD	260.8	72.4	132.39
CENTROID CHANNEL	2043	2236	2235
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2246 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	1.	0.	0.	0.	0.	3.	0.	2.	1.
1997:	0.	0.	4.	1.	0.	0.	0.	3.	1.
2006:	1.	0.	2.	0.	2.	0.	0.	3.	0.
2015:	1.	1.	0.	2.	2.	0.	3.	1.	0.
2024:	1.	0.	1.	0.	3.	0.	0.	1.	1.
2033:	1.	1.	1.	0.	1.	1.	0.	6.	1.
2042:	1.	1.	2.	3.	0.	1.	0.	0.	0.
2051:	0.	1.	2.	0.	0.	0.	1.	0.	0.
2060:	0.	1.	1.	4.	0.	0.	1.	2.	0.
2069:	0.	1.	1.	2.	0.	0.	1.	1.	0.
2078:	0.	2.	3.	1.	1.	1.	0.	2.	2.
2087:	0.	0.	0.	1.	1.	0.	0.	0.	0.
2096:	1.	1.	1.	1.	1.	1.	0.	2.	2.
2105:	2.	1.	3.	1.	0.	3.	0.	0.	1.

% COEFFICIENT

0.000000

Bullet Lead-21-95-25099

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

18-AUG-82 03:06:45

ENCL

20805034 RES

SAMPLE WEIGHT: (UG) 10000.00

ACTIVATION: 17-AUG-82 09:41:00

NBS 10 MIN RT4

ACQUIRE DATE: 17-AUG-82 13:57:32

GEM 13

PRESET LIVE TIME: 600. SEC

CALIB DATE: 17-AUG-82 09:22:11

ELAPSED REAL TIME: 599. SEC

REV/CHNL: 0.2500463

ELAPSED LIVE TIME: 600. SEC

OFF SET: -0.0226080 REV

2130:	0.	3.	0.	3.	1.	1.	1.	1.	0.
2139:	1.	0.	1.	0.	0.	1.	0.	1.	0.
2148:	1.	0.	1.	0.	1.	2.	0.	0.	0.
2157:	1.	0.	1.	1.	0.	1.	0.	3.	1.
2166:	1.	0.	0.	1.	3.	2.	1.	1.	1.
2173:	2.	0.	0.	2.	0.	0.	1.	0.	0.
2184:	2.	4.	0.	1.	0.	0.	0.	1.	0.
2193:	0.	1.	1.	1.	1.	1.	0.	2.	1.
2202:	2.	1.	1.	0.	1.	1.	0.	0.	0.
2211:	1.	0.	0.	0.	0.	0.	0.	0.	0.
2220:	0.	1.	1.	0.	0.	1.	0.	0.	0.
2229:	0.	2.	0.	0.	0.	1.	0.	0.	2.
2238:	0.	2.	0.	1.	0.	0.	0.	2.	0.
2247:	2.	0.	0.	0.	1.	0.	2.	1.	1.
2256:	0.	0.	1.	0.	2.	0.	0.	0.	1.
2263:	1.	0.	0.	0.	0.	0.	0.	0.	2.
2274:	0.	1.	0.	1.	2.	0.	2.	0.	0.
2283:	1.	1.	0.	0.	0.	0.	0.	1.	1.
2292:	0.	1.	0.	0.	1.	1.	0.	0.	1.
2301:	0.	1.	0.	0.	0.	1.	0.	2.	0.
2310:	0.	1.	1.	1.	1.	0.	1.	0.	0.
2319:	2.	0.	1.	1.	1.	2.	0.	1.	1.
2328:	2.	5.	6.	0.	4.	1.	0.	0.	1.
2337:	1.	0.	0.	0.	1.	0.	0.	1.	0.
2346:	1.	1.	1.	2.	1.	0.	1.	1.	1.
2355:	1.	1.	0.	1.	2.	1.	0.	0.	0.
2364:	1.	2.	0.	0.	1.	0.	2.	2.	1.

% ANTIMONY

0.00000

% ARSENIC

0.00000

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

18-AUG-82 03:07:52

Q14

20307094 FB

SAMPLE WEIGHT: (UG) 12841.00

ACTIVATION: 17-AUG-82 09:41:00 NBS 10 MIN RT4

ACQUIRE DATE: 17-AUG-82 14:07:43 GLH 13

PRESET LIVE TIME: 600. SEC CALIB DATE: 17-AUG-82 09:22:11

ELAPSED REAL TIME: 612. SEC KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 600. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	363.	9430.	0.0360	0.0004	1.2
%-ANTIMONY	564.1	199.	50052.	0.5647	0.0029	0.5
%-ARSENIC	559.3	250.	130.	0.6284E-04	1.6645E-04	19.3
			CU	SE	AS	
CNTS/UG/MIN AT RD			260.8	72.4	132.39	
CENTROID CHANNEL			2041	2253	2234	
HALF-LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2235 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	5	

1988:	37.	28.	25.	37.	26.	35.	32.	28.	34.
1997:	32.	29.	28.	28.	20.	35.	32.	34.	24.
2006:	30.	21.	32.	28.	33.	34.	37.	41.	26.
2015:	24.	25.	30.	27.	30.	37.	50.	30.	31.
2024:	45.	46.	59.	56.	82.	100.	106.	141.	173.
2033:	259.	363.	464.	603.	748.	856.	974.	987.	1076.
2042:	944.	874.	812.	617.	486.	352.	257.	168.	130.
2051:	108.	89.	63.	48.	42.	28.	25.	39.	26.
2060:	28.	31.	26.	28.	18.	25.	15.	22.	26.
2069:	21.	22.	16.	21.	29.	18.	21.	16.	22.
2078:	21.	15.	32.	31.	35.	16.	23.	17.	35.
2087:	26.	17.	19.	19.	26.	26.	20.	22.	29.
2096:	28.	20.	23.	23.	26.	17.	31.	22.	21.
2105:	19.	24.	25.	31.	19.	13.	18.	17.	35.

% COPPER

0.0360

Bullet Lead-23-95-25099

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

18-AUG-82 03:08:20

Q14

2080904 RE:

SAMPLE WEIGHT: (UG) 12841.00

ACTIVATION: 17-AUG-82 09:41:00

NBS 10 MIN RT4

ACQUIRE DATE: 17-AUG-82 14:07:43

GEM 13

PRESET LIVE TIME: 600. SEC

CALIB DATE: 17-AUG-82 09:22:11

ELAPSED REAL TIME: 612. SEC

KEV/CINL: 0.2500463

ELAPSED LIVE TIME: 600. SEC

OFFSET: -0.0226080 KEV

2130:	20.	16.	21.	22.	15.	24.	24.	21.	24.
2139:	17.	29.	22.	19.	15.	30.	25.	15.	13.
2148:	20.	21.	19.	14.	22.	36.	30.	23.	21.
2157:	27.	24.	16.	27.	19.	20.	24.	20.	24.
2166:	28.	13.	27.	24.	22.	21.	22.	25.	13.
2175:	25.	16.	24.	24.	20.	18.	14.	21.	15.
2184:	23.	29.	14.	20.	20.	17.	28.	30.	19.
2193:	21.	27.	19.	26.	22.	18.	23.	25.	18.
2202:	20.	24.	19.	22.	25.	27.	23.	24.	26.
2211:	25.	24.	26.	23.	24.	24.	25.	29.	24.
2220:	35.	36.	29.	41.	33.	33.	32.	29.	26.
2229:	33.	45.	53.	71.	73.	59.	50.	59.	60.
2238:	59.	54.	62.	74.	83.	111.	115.	197.	208.
2247:	641.	1343.	2593.	4513.	6615.	8236.	8463.	7313.	5112.
2256:	3077.	1491.	632.	222.	71.	29.	9.	18.	16.
2265:	4.	12.	15.	13.	18.	13.	10.	12.	4.
2274:	8.	12.	11.	5.	7.	9.	4.	8.	9.
2283:	6.	5.	10.	6.	4.	14.	6.	7.	10.
2292:	6.	11.	7.	7.	7.	7.	12.	8.	6.
2301:	7.	6.	11.	6.	5.	8.	6.	15.	12.
2310:	8.	11.	6.	8.	7.	4.	7.	4.	10.
2319:	6.	5.	13.	6.	8.	6.	6.	10.	11.
2328:	5.	10.	7.	11.	9.	10.	10.	9.	9.
2337:	7.	7.	7.	9.	12.	8.	6.	5.	6.
2346:	10.	5.	10.	10.	14.	3.	12.	6.	7.
2355:	11.	7.	5.	8.	10.	10.	15.	5.	6.
2364:	8.	13.	5.	7.	5.	4.	10.	7.	9.

% ANALYTICAL

0.000000

% PRESENTED

0.000000

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

18-AUG-82 03:09:27

GILES

2060508-7 FB

SAMPLE WEIGHT: (UG) 12386.00

ACTIVATION: 17-AUG-82 09:41:00 NBS 10 MLN R14

ACQUIRE DATE: 17-AUG-82 14:18:08 GEM 13

PRESET LIVE TIME: 600. SEC CALIB DATE: 17-AUG-82 09:22:11

ELAPSED REAL TIME: 611. SEC KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 600. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGD	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	331.	8938.	0.0357	0.0004	1.2
%-ANTIMONY	564.1	206.	48075.	0.5633	0.0029	0.5
%-ARSENIC	559.3	249.	151.	0.0010	0.0002	16.9
			CU	SE	AS	
CNTS/UG/MIN AT RD			260.8	72.4	132.39	
CENTROID CHANNEL			2041	2253	2233	
HALF-LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2237 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	3	

1988:	34.	24.	25.	21.	28.	26.	36.	29.	26.
1997:	39.	35.	37.	33.	31.	42.	32.	25.	36.
2006:	27.	28.	25.	32.	34.	36.	28.	32.	33.
2015:	32.	28.	29.	34.	39.	30.	43.	25.	39.
2024:	36.	41.	57.	59.	78.	85.	101.	154.	187.
2033:	238.	338.	464.	611.	722.	825.	977.	995.	923.
2042:	932.	793.	697.	589.	430.	317.	228.	171.	121.
2051:	89.	73.	69.	42.	39.	30.	30.	31.	31.
2060:	37.	29.	27.	25.	25.	23.	26.	23.	30.
2069:	28.	23.	23.	26.	26.	10.	21.	28.	28.
2078:	26.	25.	27.	20.	20.	21.	23.	26.	21.
2087:	19.	27.	20.	20.	18.	22.	29.	30.	18.
2096:	32.	18.	27.	39.	26.	23.	21.	15.	20.
2105:	20.	27.	22.	13.	20.	24.	19.	17.	25.

% COPPER

0.0357

LEAD ANALYSIS

18-AUG-82 03:09:53

FILE:

20809034 P23

SAMPLE WEIGHT: (UG) 12386.00

ACTIVATION: 17-AUG-82 09:41:00

NBS 10 MIN RT4

ACQUIRE DATE: 17-AUG-82 14:18:08

GEM 13

PRESET LIVE TIME: 600. SEC

CALIB DATE: 17-AUG-82 09:22:11

ELAPSED REAL TIME: 611. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 600. SEC

OFFSET: -0.0226080 KEV

2130:	27.	11.	19.	27.	28.	17.	20.	27.	23.
2139:	16.	22.	17.	27.	18.	14.	21.	24.	22.
2148:	11.	12.	10.	17.	23.	16.	24.	21.	22.
2157:	20.	17.	21.	23.	28.	20.	18.	21.	25.
2166:	19.	17.	22.	19.	21.	29.	22.	22.	18.
2175:	32.	23.	22.	16.	15.	23.	18.	14.	15.
2184:	25.	24.	23.	14.	24.	23.	21.	20.	23.
2193:	21.	17.	22.	19.	23.	17.	25.	35.	21.
2202:	18.	21.	23.	21.	24.	22.	22.	27.	26.
2211:	25.	26.	31.	28.	30.	20.	17.	25.	20.
2220:	25.	24.	23.	27.	22.	35.	37.	30.	24.
2229:	47.	33.	67.	70.	60.	59.	54.	59.	41.
2238:	54.	52.	70.	77.	68.	88.	118.	177.	318.
2247:	644.	1431.	2787.	4624.	6521.	8112.	8090.	6680.	4656.
2256:	2791.	1256.	506.	183.	59.	20.	8.	9.	14.
2265:	10.	13.	9.	5.	11.	10.	9.	9.	5.
2274:	12.	9.	10.	11.	10.	7.	13.	4.	13.
2283:	14.	8.	15.	6.	7.	7.	8.	9.	5.
2292:	11.	7.	7.	10.	4.	6.	8.	7.	7.
2301:	1.	6.	3.	8.	9.	11.	8.	5.	4.
2310:	9.	8.	7.	4.	5.	10.	5.	10.	5.
2319:	8.	4.	9.	5.	7.	10.	7.	6.	8.
2328:	12.	16.	7.	7.	12.	5.	11.	12.	8.
2337:	7.	6.	6.	6.	9.	4.	4.	8.	1.
2346:	3.	4.	6.	10.	4.	6.	8.	1.	4.
2355:	6.	8.	7.	2.	5.	6.	9.	3.	6.
2364:	6.	5.	6.	4.	1.	10.	10.	7.	5.

% ANTIMONY

0.25533

% ARSENIC

0.00110

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
18-AUG-82 09:11:02

Q111 2080508-1 FB

SAMPLE WEIGHT: (UG) 12358.00
ACTIVATION: 17-AUG-82 09:41:00 NBS 10 MIN RT4
ACQUIRE DATE: 17-AUG-82 14:28:33 GEM 13
PRESET LIVE TIME: 600. SEC CALIB DATE: 17-AUG-82 09:22:11
ELAPSED REAL TIME: 611. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 600. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	KGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	330.	8861.	0.0358	0.0004	1.2
%-ANTIMONY	564.1	181.	47957.	0.3613	0.0029	0.3
%-ARSENIC	559.3	250.	121.	8.4004E-04	1.7546E-04	20.9

	CU	SE	AS
CNTS/UG/MIN AT RD	260.8	72.4	132.39
CENTROID CHANNEL	2041	2253	2234
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	30 L&R	80 L&R	30 L CH 2237 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	35.	28.	26.	33.	22.	26.	30.	39.	26.
1997:	34.	23.	28.	29.	33.	28.	34.	33.	27.
2006:	24.	26.	25.	27.	36.	25.	29.	35.	26.
2013:	27.	30.	25.	34.	32.	38.	44.	26.	36.
2024:	45.	39.	51.	67.	80.	99.	111.	140.	192.
2033:	266.	370.	472.	609.	722.	833.	914.	958.	1001.
2042:	852.	874.	686.	529.	408.	333.	233.	174.	114.
2051:	89.	66.	58.	39.	36.	32.	28.	26.	23.
2060:	22.	20.	21.	25.	15.	25.	24.	23.	27.
2069:	27.	17.	18.	19.	19.	22.	28.	18.	19.
2078:	20.	22.	19.	17.	18.	20.	16.	20.	16.
2087:	23.	16.	26.	20.	28.	20.	20.	29.	26.
2096:	19.	26.	29.	32.	22.	19.	22.	20.	23.
2103:	19.	22.	29.	15.	25.	25.	24.	15.	18.

% COPPER 0.0358

Bullet Lead-27-95-25099

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

18-AUG-82 03:11:30

GILC

20805064 PCB

SAMPLE WEIGHT: (UG) 12358.00

ACTIVATION: 17-AUG-82 09:41:00

NEB 10 MIN RT4

ACQUIRE DATE: 17-AUG-82 14:28:33

GEN 13

PRESET LIVE TIME: 600. SEC

CALIB DATE: 17-AUG-82 09:22:11

ELAPSED REAL TIME: 611. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 600. SEC

OFFSET: -0.0226080 KEV

2130:	19.	15.	23.	20.	14.	13.	18.	22.	24.
2139:	20.	17.	19.	19.	26.	19.	16.	22.	16.
2148:	24.	20.	28.	28.	19.	20.	28.	17.	19.
2157:	14.	21.	21.	21.	22.	21.	33.	23.	13.
2166:	24.	15.	27.	24.	22.	21.	14.	32.	18.
2175:	18.	14.	22.	19.	15.	18.	30.	17.	32.
2184:	30.	20.	25.	26.	16.	21.	25.	19.	12.
2193:	18.	14.	20.	13.	27.	20.	17.	29.	24.
2202:	20.	23.	22.	23.	23.	27.	18.	32.	18.
2211:	18.	18.	27.	26.	28.	30.	24.	23.	26.
2220:	26.	23.	24.	26.	25.	27.	23.	32.	38.
2229:	43.	45.	58.	55.	63.	58.	49.	62.	43.
2238:	52.	51.	58.	67.	96.	83.	116.	182.	327.
2247:	724.	1545.	2865.	4800.	6819.	8164.	7765.	6538.	4519.
2256:	2545.	1237.	444.	173.	37.	33.	18.	10.	8.
2265:	7.	11.	12.	14.	6.	8.	15.	14.	4.
2274:	6.	8.	10.	6.	12.	12.	7.	12.	5.
2283:	7.	5.	2.	8.	9.	9.	12.	9.	9.
2292:	5.	7.	10.	2.	4.	7.	11.	5.	4.
2301:	9.	8.	2.	4.	4.	6.	3.	9.	8.
2310:	7.	10.	11.	7.	10.	5.	4.	6.	3.
2319:	9.	5.	5.	8.	10.	5.	5.	7.	7.
2328:	15.	5.	6.	9.	10.	6.	6.	5.	5.
2337:	7.	2.	2.	6.	6.	4.	5.	5.	6.
2346:	11.	6.	6.	7.	4.	8.	5.	6.	5.
2355:	4.	7.	8.	6.	5.	4.	6.	3.	7.
2364:	6.	3.	7.	4.	9.	2.	6.	5.	10.

% ANTIMONY

0.25463

% ARSENIC

0.00063

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
18-AUG-82 03:12:37

Q12A 2040504 RB

SAMPLE WEIGHT: (UG) 12537.00
ACTIVATION: 17-AUG-82 09:41:00 NBS 10 MIN R14
ACQUIRE DATE: 17-AUG-82 14:38:58 GLM 13
PRESET LIVE TIME: 600. SEC CALIB DATE: 17-AUG-82 09:22:11
ELAPSED REAL TIME: 612. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 600. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGD	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	352.	8834.	0.0355	0.0004	1.2
%-ANTIMONY	564.1	190.	49397.	0.5763	0.0030	0.3
%-ARSENIC	559.3	0.	0.	0.0000E-01	NOT DETECTABLE	

	CU	SB	AS
CNTS/UG/MIN AT RD	260.8	72.4	132.39
CENTROID CHANNEL	2041	2253	2233
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	30 L&R	30 L CH 2233 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	30.	28.	35.	26.	29.	37.	27.	32.	26.
1997:	36.	24.	28.	33.	24.	35.	32.	20.	36.
2006:	20.	26.	35.	26.	30.	34.	35.	31.	27.
2015:	35.	23.	37.	42.	46.	30.	37.	40.	42.
2024:	40.	51.	47.	56.	70.	66.	108.	142.	189.
2033:	274.	362.	424.	614.	763.	864.	911.	992.	966.
2042:	912.	795.	655.	562.	420.	308.	224.	162.	109.
2051:	80.	66.	61.	64.	56.	47.	30.	34.	28.
2060:	26.	25.	23.	15.	16.	23.	27.	23.	18.
2069:	24.	18.	22.	24.	28.	22.	28.	24.	27.
2078:	30.	20.	26.	31.	25.	23.	20.	24.	25.
2087:	30.	19.	29.	28.	31.	25.	16.	20.	22.
2096:	26.	23.	15.	24.	23.	19.	25.	23.	25.
2105:	21.	24.	18.	25.	23.	14.	29.	26.	29.

% COPPER 0.0355

Bullet Lead-29-95-25099

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

18-AUG-82 03:13:05

Q24

20809084 RB

SAMPLE WEIGHT: (UG) 12537.00

ACTIVATION: 17-AUG-82 09:41:00

NBS 10 MIN R14

ACQUIRE DATE: 17-AUG-82 14:38:38

GEM 13

PRESET LIVE TIME: 600. SEC

CALIB DATE: 17-AUG-82 09:22:11

ELAPSED REAL TIME: 612. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 600. SEC

OFFSET: -0.0226080 KEV

2130:	25.	23.	19.	22.	25.	22.	16.	28.	15.
2139:	26.	23.	20.	22.	17.	18.	22.	25.	19.
2148:	16.	26.	23.	23.	12.	20.	19.	19.	27.
2157:	20.	24.	19.	21.	14.	22.	27.	21.	22.
2166:	23.	19.	22.	20.	17.	15.	23.	22.	9.
2173:	25.	26.	19.	19.	18.	22.	17.	24.	28.
2184:	25.	27.	23.	23.	21.	23.	25.	21.	23.
2193:	21.	34.	18.	23.	23.	17.	28.	16.	18.
2202:	31.	20.	32.	22.	30.	20.	32.	23.	24.
2211:	26.	23.	33.	25.	27.	32.	25.	35.	32.
2220:	32.	39.	30.	24.	33.	25.	31.	34.	33.
2229:	40.	35.	56.	60.	47.	56.	62.	52.	59.
2238:	64.	52.	78.	68.	69.	98.	124.	163.	332.
2247:	784.	1632.	3015.	4972.	7103.	8296.	8311.	6660.	4525.
2256:	2583.	1204.	511.	191.	44.	28.	12.	9.	12.
2265:	14.	10.	13.	13.	15.	8.	5.	6.	7.
2274:	12.	9.	8.	10.	17.	10.	10.	3.	12.
2283:	10.	5.	8.	14.	3.	16.	6.	8.	8.
2292:	7.	8.	10.	10.	6.	3.	12.	5.	5.
2301:	9.	6.	7.	6.	8.	11.	5.	5.	7.
2310:	8.	7.	4.	4.	9.	3.	9.	8.	6.
2319:	8.	5.	9.	5.	6.	11.	10.	7.	6.
2328:	8.	15.	13.	10.	9.	9.	11.	7.	8.
2337:	4.	11.	11.	8.	12.	4.	5.	8.	6.
2346:	7.	4.	7.	10.	8.	6.	12.	5.	8.
2353:	8.	9.	9.	9.	11.	11.	8.	12.	14.
2364:	11.	11.	13.	7.	7.	10.	5.	9.	16.

% ANTIMONY

0.5753

% ARSENIC

NOT DETECTABLE

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

18-AUG-82 03:14:12

Q123 20605064 NES

SAMPLE WEIGHT: (UG) 13206.00

ACTIVATION: 17-AUG-82 09:41:00 NES 10 MIN RT4

ACQUIRE DATE: 17-AUG-82 14:49:23 GLM 13

PRESET LIVE TIME: 600. SEC CALIB DATE: 17-AUG-82 09:22:11

ELAPSED REAL TIME: 613. SEC KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 600. SEC OFF-SET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	337.	9185.	0.0354	0.0004	1.2
%-ANTIMONY	564.1	202.	51578.	0.3700	0.0029	0.3
%-ARSENIC	559.3	264.	166.	0.0011	0.0002	15.9

	CU	SB	AS
CNTS/UG/MIN AT RD	260.8	72.4	132.39
CENTROID CHANNEL	2041	2253	2234
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	30 L&R	30 L CH 2238 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	3

1988:	20.	38.	33.	30.	31.	29.	28.	30.	21.
1997:	32.	35.	31.	35.	35.	22.	31.	37.	43.
2006:	34.	23.	31.	36.	31.	33.	30.	35.	35.
2013:	26.	30.	41.	31.	44.	31.	31.	32.	44.
2024:	37.	49.	52.	73.	72.	113.	123.	148.	187.
2033:	279.	390.	500.	623.	786.	879.	1012.	1006.	991.
2042:	948.	796.	649.	574.	450.	308.	245.	150.	126.
2051:	88.	58.	59.	57.	36.	38.	44.	25.	33.
2060:	34.	19.	19.	31.	25.	24.	22.	15.	30.
2069:	30.	32.	25.	26.	26.	30.	17.	25.	23.
2078:	24.	20.	18.	20.	20.	21.	22.	16.	18.
2087:	22.	26.	26.	25.	15.	22.	24.	31.	27.
2096:	18.	29.	33.	25.	32.	35.	24.	16.	21.
2105:	28.	18.	21.	20.	22.	20.	23.	32.	28.

% COPPER U . 0354

Bullet Lead-31-95-25099

LEAD ANALYSIS

17-AUG-82 03:14:40

Q215

20605064 PLS

SAMPLE WEIGHT: (UG) 13206.00

ACQUISITION: 17-AUG-82 09:41:00

NBS 10 MIN RT4

ACQUIRE DATE: 17-AUG-82 14:49:23

GEN 13

PRESET LIVE TIME: 600. SEC

CALIB DATE: 17-AUG-82 09:22:11

ELAPSED REAL TIME: 613. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 600. SEC

OFFSET: -0.0226080 KEV

2130:	15.	24.	25.	12.	23.	25.	16.	15.	25.
2139:	23.	30.	19.	22.	24.	15.	22.	28.	16.
2148:	22.	13.	29.	31.	17.	22.	31.	23.	29.
2157:	16.	18.	18.	20.	16.	27.	23.	13.	19.
2166:	26.	17.	20.	22.	16.	12.	15.	25.	26.
2175:	31.	27.	25.	19.	17.	17.	28.	18.	21.
2184:	24.	23.	22.	19.	24.	35.	27.	25.	17.
2193:	17.	20.	27.	22.	21.	23.	27.	16.	24.
2202:	24.	27.	29.	22.	22.	21.	23.	29.	36.
2211:	21.	24.	19.	31.	31.	28.	36.	31.	30.
2220:	30.	29.	32.	28.	36.	39.	31.	32.	42.
2229:	42.	54.	60.	73.	61.	64.	71.	67.	64.
2238:	44.	58.	54.	67.	89.	103.	161.	214.	385.
2247:	827.	1692.	3171.	5325.	7366.	8654.	8493.	6948.	4784.
2256:	2618.	1234.	513.	154.	49.	21.	14.	8.	6.
2265:	12.	14.	14.	14.	13.	7.	8.	10.	6.
2274:	7.	7.	15.	9.	7.	8.	7.	6.	11.
2283:	9.	15.	13.	11.	2.	9.	11.	6.	8.
2292:	7.	6.	11.	11.	4.	6.	8.	9.	9.
2301:	6.	8.	11.	6.	8.	6.	7.	9.	7.
2310:	5.	8.	7.	8.	13.	8.	14.	7.	5.
2319:	10.	10.	5.	7.	11.	12.	8.	9.	8.
2328:	12.	7.	17.	14.	7.	8.	4.	8.	9.
2337:	9.	8.	2.	9.	11.	10.	6.	8.	13.
2346:	10.	4.	5.	5.	4.	8.	10.	6.	10.
2355:	7.	5.	7.	7.	9.	8.	7.	9.	11.
2364:	6.	10.	8.	6.	8.	5.	2.	10.	7.

% ANTIMONY

0.5700

% ARSENIC

0.0033

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
18-AUG-82 03:15:47

Q22: 20609064 RB

SAMPLE WEIGHT: (UG) 12784.00
ACTIVATION: 17-AUG-82 09:41:00 NBS 10 MIN RT4
ACQUIRE DATE: 17-AUG-82 14:59:48 GEM 13
PRESET LIVE TIME: 600. SEC CALIB DATE: 17-AUG-82 09:22:11
ELAPSED REAL TIME: 612. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 600. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGD	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	352.	9092.	0.0365	0.0004	1.2
%-ANTIMONY	564.1	190.	50677.	0.3796	0.0029	0.5
%-ARSENIC	559.3	224.	108.	7.3627E-04	1.6068E-04	21.8

	CU	SB	AS
CNTS/UG/MIN AT RD	260.8	72.4	132.39
CENTROID CHANNEL	2041	2253	2233
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2237 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1986:	30.	45.	35.	38.	30.	40.	32.	27.	36.
1997:	36.	28.	21.	29.	22.	37.	30.	28.	31.
2006:	42.	29.	39.	29.	25.	41.	37.	35.	30.
2015:	29.	32.	30.	26.	41.	34.	29.	31.	44.
2024:	37.	60.	50.	55.	82.	87.	106.	147.	214.
2033:	283.	338.	512.	630.	768.	906.	973.	990.	944.
2042:	950.	801.	679.	568.	415.	308.	245.	158.	101.
2051:	107.	52.	59.	45.	22.	26.	21.	30.	20.
2060:	22.	26.	23.	34.	26.	20.	22.	25.	25.
2069:	22.	30.	25.	19.	25.	24.	22.	18.	25.
2078:	29.	11.	30.	22.	14.	28.	25.	21.	22.
2087:	25.	19.	24.	18.	24.	20.	30.	21.	14.
2096:	20.	21.	24.	18.	21.	24.	29.	22.	21.
2105:	19.	18.	22.	21.	16.	24.	23.	18.	21.

% COPPER 0.0365

Bullet Lead-33-95-25099

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

18-AUG-82 03:16:15

Q22C

20809084 RB

SAMPLE WEIGHT: (UG) 12784.00

ACTIVATION: 17-AUG-82 09:41:00

NBS 10 MLN RT4

ACQUIRE DATE: 17-AUG-82 14:59:48

GEM 13

PRESET LIVE TIME: 600. SEC

CALIB DATE: 17-AUG-82 09:22:11

ELAPSED REAL TIME: 612. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 600. SEC

OFFSET: -0.0226080 KEV

2130:	22.	20.	17.	27.	21.	19.	24.	22.	15.
2139:	27.	26.	20.	21.	30.	26.	21.	15.	26.
2148:	18.	22.	17.	19.	26.	28.	29.	25.	17.
2157:	17.	25.	16.	29.	22.	25.	20.	17.	13.
2166:	14.	23.	28.	16.	15.	14.	28.	19.	26.
2175:	19.	16.	19.	27.	28.	17.	18.	21.	23.
2184:	31.	21.	12.	28.	24.	22.	16.	31.	23.
2193:	18.	25.	22.	25.	24.	18.	17.	19.	22.
2202:	16.	20.	20.	31.	25.	16.	20.	30.	30.
2211:	31.	19.	35.	23.	32.	22.	24.	30.	19.
2220:	27.	23.	34.	30.	26.	21.	30.	39.	43.
2229:	34.	39.	59.	65.	51.	51.	58.	55.	50.
2238:	61.	58.	54.	77.	71.	105.	115.	186.	367.
2247:	851.	1689.	3309.	5356.	7313.	8566.	8205.	6681.	4544.
2256:	2538.	1169.	488.	158.	38.	19.	9.	9.	20.
2265:	11.	20.	11.	5.	9.	12.	11.	10.	6.
2274:	12.	6.	8.	8.	5.	7.	8.	9.	8.
2283:	10.	11.	6.	3.	14.	13.	11.	4.	4.
2292:	8.	4.	14.	6.	5.	9.	8.	5.	6.
2301:	10.	8.	5.	2.	6.	8.	6.	13.	5.
2310:	2.	12.	8.	3.	14.	7.	8.	13.	7.
2319:	10.	9.	8.	6.	7.	5.	4.	1.	10.
2328:	18.	8.	6.	11.	5.	8.	3.	11.	5.
2337:	9.	11.	8.	10.	11.	9.	6.	9.	7.
2346:	12.	10.	3.	7.	6.	6.	6.	6.	13.
2355:	7.	9.	8.	13.	8.	8.	6.	5.	9.
2364:	3.	9.	5.	5.	4.	6.	4.	8.	8.

% ANTIMONY

0.5355

% ARSENIC

0.0000

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
18-AUG-82 03:17:22

Q164 20000004 FB

SAMPLE WEIGHT: (UG) 12382.00
ACTIVATION: 17-AUG-82 09:41:00 NBS 10 MIN RT4
ACQUIRE DATE: 17-AUG-82 13:10:14 GEM 13
PRESET LIVE TIME: 600. SEC CALIB DATE: 17-AUG-82 09:22:11
ELAPSED REAL TIME: 611. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 600. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGD	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	321.	8465.	0.0354	0.0004	1.3
%-ANTIMONY	564.1	181.	47604.	0.5632	0.0029	0.5
%-ARSENIC	559.3	249.	99.	6.9879E-04	1.7265E-04	24.7

	CU	SB	AS
CNTS/UG/MIN AT RD	260.8	72.4	132.39
CENTROID CHANNEL	2041	2253	2234
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	30 L&R	30 L&R	30 L CH 2238 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	34.	28.	32.	21.	33.	37.	30.	25.	31.
1997:	30.	29.	33.	35.	30.	30.	20.	36.	31.
2006:	28.	22.	27.	30.	25.	34.	25.	28.	29.
2015:	36.	27.	39.	35.	30.	34.	31.	34.	43.
2024:	47.	49.	43.	77.	82.	94.	116.	151.	194.
2033:	263.	350.	461.	606.	700.	820.	891.	941.	946.
2042:	814.	778.	640.	552.	367.	270.	225.	146.	100.
2051:	85.	69.	37.	36.	42.	30.	29.	41.	27.
2060:	28.	30.	37.	20.	22.	17.	26.	23.	17.
2069:	24.	20.	28.	19.	25.	19.	26.	20.	23.
2078:	24.	29.	20.	25.	16.	18.	22.	16.	23.
2087:	16.	20.	19.	21.	23.	20.	21.	17.	14.
2096:	19.	23.	25.	24.	21.	18.	25.	24.	28.
2103:	25.	25.	23.	19.	17.	12.	25.	21.	29.

% COPPER 0.0354

Bullet Lead-35-95-25099

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

18-AUG-82 03:17:50

Q34

220605034 FLS

SAMPLE WEIGHT: (UG) 12382.00

ACTIVATION: 17-AUG-82 09:41:00

NBS 10 MIN RT4

ACQUIRE DATE: 17-AUG-82 15:10:14

GEM 13

PRESET LIVE TIME: 600. SEC

CALIB DATE: 17-AUG-82 09:22:11

ELAPSED REAL TIME: 611. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 600. SEC

OFFSET: -0.0226080 KEV

2130:	17.	20.	24.	21.	26.	17.	17.	22.	19.
2139:	21.	21.	21.	18.	21.	13.	19.	24.	21.
2148:	17.	24.	22.	13.	18.	24.	24.	20.	22.
2157:	20.	17.	25.	22.	28.	26.	20.	24.	22.
2166:	23.	15.	24.	20.	27.	24.	8.	23.	24.
2175:	19.	25.	17.	18.	20.	12.	24.	16.	21.
2184:	25.	21.	19.	14.	26.	26.	18.	17.	14.
2193:	28.	25.	18.	21.	17.	21.	25.	24.	22.
2202:	21.	23.	20.	22.	23.	27.	20.	22.	25.
2211:	27.	24.	18.	33.	20.	17.	23.	32.	34.
2220:	32.	21.	31.	31.	30.	21.	28.	41.	41.
2229:	40.	52.	51.	55.	51.	62.	58.	57.	56.
2238:	51.	54.	62.	73.	70.	99.	107.	195.	367.
2247:	802.	1646.	3129.	5127.	6870.	8031.	7766.	6294.	4148.
2256:	2316.	1102.	429.	125.	53.	25.	18.	10.	13.
2265:	8.	11.	9.	9.	5.	8.	6.	10.	4.
2274:	8.	8.	11.	9.	12.	5.	5.	3.	7.
2283:	12.	10.	6.	14.	8.	7.	14.	2.	6.
2292:	4.	9.	15.	5.	8.	3.	7.	6.	3.
2301:	7.	8.	6.	8.	3.	6.	9.	10.	7.
2310:	6.	5.	7.	5.	10.	6.	4.	6.	8.
2319:	7.	5.	7.	8.	3.	2.	12.	11.	4.
2328:	7.	9.	6.	4.	6.	9.	8.	3.	9.
2337:	6.	10.	6.	9.	1.	8.	5.	8.	6.
2346:	5.	7.	6.	7.	6.	7.	1.	8.	11.
2355:	8.	7.	4.	10.	8.	10.	7.	4.	7.
2364:	5.	8.	5.	13.	2.	4.	3.	5.	9.

% ANTIMONY

0.156332

% ARSENIC

0.0007

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
18-AUG-82 03:18:57

Q18B: 20605084 RES

SAMPLE WEIGHT: (UG) 10250.00
ACTIVATION: 17-AUG-82 09:41:00 NBS 10 MIN RT4
ACQUIRE DATE: 17-AUG-82 15:20:39 GLM 13
PRESET LIVE TIME: 600. SEC CALIB DATE: 17-AUG-82 09:22:11
ELAPSED REAL TIME: 610. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 600. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	279.	6937.	0.0354	0.0005	1.4
%-ANTIMONY	564.1	180.	39439.	0.5642	0.0032	0.6
%-ARSENIC	559.3	195.	103.	8.8395E-04	1.9031E-04	21.5

	CU	SB	AS
CNTS/UG/MIN AT RD	260.8	72.4	132.39
CENTROID CHANNEL	2041	2253	2232
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2240 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	29.	21.	22.	16.	25.	19.	33.	22.	31.
1997:	15.	28.	30.	24.	28.	23.	34.	22.	21.
2006:	28.	23.	23.	19.	21.	27.	27.	31.	25.
2015:	18.	37.	31.	24.	26.	28.	32.	30.	25.
2024:	43.	38.	48.	48.	59.	66.	108.	111.	162.
2033:	221.	313.	374.	472.	609.	684.	723.	776.	749.
2042:	697.	599.	500.	429.	355.	249.	164.	122.	108.
2051:	69.	51.	36.	37.	23.	33.	26.	26.	23.
2060:	28.	15.	14.	18.	28.	16.	12.	14.	20.
2069:	21.	23.	15.	20.	13.	18.	13.	17.	27.
2078:	22.	18.	14.	13.	22.	22.	15.	12.	23.
2087:	13.	16.	24.	15.	23.	11.	16.	21.	26.
2096:	18.	17.	20.	24.	23.	18.	22.	19.	21.
2105:	22.	18.	17.	18.	30.	8.	25.	21.	21.

% COPPER 0.0354

Bullet Lead-37-95-25099

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

18-AUG-82 03:19:23

Q3B

220105044 FEB

SAMPLE WEIGHT: (UG) 10258.00

ACTIVATION: 17-AUG-82 09:41:00 NBS 10 MIN RT4

ACQUIRE DATE: 17-AUG-82 13:20:39 GEM 13

PRESET LIVE TIME: 600. SEC CALIB DATE: 17-AUG-82 09:22:11

ELAPSED REAL TIME: 610. SEC KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 600. SEC OFFSET: -0.0226080 KEV

2130:	18.	21.	16.	16.	19.	20.	23.	21.	15.
2139:	14.	14.	20.	21.	20.	13.	16.	18.	15.